

Form PTO-1449 (Modified)

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
**600-1-087CIP1**Serial No.  
**08/498,491**

## INFORMATION DISCLOSURE STATEMENT

Applicant  
**Friedman, J. et al.**Filing Date  
**May 10, 1995**Group  
**1812**

(Use several sheets if necessary)



## U.S. PATENT DOCUMENTS

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
CS	A1	5,521,283	5/28/96	DiMarchi, R.D. et al.	530	324	
	A2	5,525,705	6/11/96	DiMarchi, R.D. et al.	530	324	
	A3	5,532,336	7/2/96	DiMarchi, R.D. et al.	530	324	
	A4	5,552,522	9/3/96	DiMarchi, R.D. et al.	530	324	
	A5	5,552,523	9/3/96	Basinski, M.B. et al.	530	324	
	A6	5,552,524	9/3/96	Basinski, M.B. et al.	530	324	
	A7	5,554,727	9/10/96	Basinski, M.B. et al.	530	324	
	A8	5,559,208	9/24/96	Basinski, M.B. et al.	530	317	
	A9	5,563,243	10/8/96	DiMarchi, R.D. et al.	530	324	
	A10	5,563,244	10/8/96	DiMarchi, R.D. et al.	530	324	
	A11	5,563,245	10/8/96	DiMarchi, R.D. et al.	530	4	
	A12	5,567,678	10/22/96	DiMarchi, R.D. et al.	530	324	
	A13	5,567,803	10/22/96	Basinski, M.B. et al.	530	324	
	A14	5,569,743	10/29/96	DiMarchi, R.D. et al.	530	324	
	A15	5,569,744	10/29/96	Basinski, M.B. et al.	530	324	
	A16	5,574,133	11/12/96	DiMarchi, R.D. et al.	530	324	
	A17	5,580,954	12/03/96	DiMarchi, R.D. et al.	530	324	
	A18	5,594,101	1/14/97	Becker, G.W. et al.	530	317	
	A19	5,594,104	1/14/97	Basinski, M.B. et al.	530	324	
CS	A20	5,605,886	2/25/97	Basinski, M.B. et al.	514	12	

EXAMINER  
**G. Draper**

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Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. <b>600-1-087CIP1</b>	Serial No. <del>08/438,431</del>
<b>INFORMATION DISCLOSURE STATEMENT</b> <i>(Use several sheets if necessary)</i>		Applicant <b>Friedman, J. et al.</b>	
		Filing Date <del>May 10, 1995</del>	Group <del>1812</del>

U.S. PATENT DOCUMENTS							
*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
CS	A21	5,614,379	3/25/97	MacKellar, W.C. et al.	435	68.1	
	A22	5,643,748	7/01/97	Snodgrass, H.R. et al.	435	69.1	
	A23	5,691,309	11/25/97	Basinski, M.B. et al.	514	12	
CS	A24	5,698,389	12/16/97	de la Brousse	435	4	

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**May 10, 1995**Group  
**1812***(Use several sheets if necessary)***FOREIGN PATENT DOCUMENTS**

*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
CS	B1	EP 725078 A1	8/7/96	EP				
	B2	EP 725079 A1	8/7/96	EP				
	B3	EP 736599 A2	10/9/96	EP				
	B4	EP 741187 A2	11/6/96	EP				
	B5	EP 743321 A2	11/20/96	EP				
	B6	EP 744408 A2	11/27/96	EP				
	B7	EP 745610 A2	12/4/96	EP				
	B8	EP 759441 A2	2/26/97	EP				
	B9	EP 764722 A2	3/26/97	EP				
	B10	EP 784979 A2	7/23/97	EP				
	B11	EP 784981 A2	7/23/97	EP				
	B12	EP 784982 A2	7/23/97	EP				
	B13	EP 786256 A2	7/30/97	EP				
CS	B14	EP 797999 A2	10/1/97	EP				

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**FOREIGN PATENT DOCUMENTS**

*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
CS	B15	JP 8-333394	12/17/96	JP			ABSTRACT ONLY	
	B16	JP 9-3098	1/7/97	JP			ABSTRACT ONLY	
	B17	WO 96/05861	2/29/96	PCT				
	B18	WO 96/22308	7/25/96	PCT				
	B19	WO 96/23513	8/8/96	PCT				
	B20	WO 96/23514	8/8/96	PCT				
	B21	WO 96/23515	8/8/96	PCT				
	B22	WO 96/23516	8/8/96	PCT				
	B23	WO 96/23517	8/8/96	PCT				
	B24	WO 96/23518	8/8/96	PCT				
	B25	WO 96/23519	8/8/96	PCT				
CS	B26	WO 96/23520	8/8/96	PCT				

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							Yes	No
CS	B27	WO 96/23815	8/8/96	PCT				
	B28	WO 96/24670	8/15/96	PCT				
	B29	WO 96/27385	9/12/96	PCT				
	B30	WO 96/29405	9/26/96	PCT				
	B31	WO 96/31526	10/10/96	PCT				
	B32	WO 96/34111	10/31/96	PCT				
	B33	WO 96/34885	11/7/96	PCT				
	B34	WO 96/35787	11/14/96	PCT				
	B35	WO 96/36641	11/21/96	PCT				
	B36	WO 96/36644	11/21/96	PCT				
	B37	WO 96/37517	11/28/96	PCT				
	B38	WO 96/38152	12/5/96	PCT				
	B39	WO 96/38586	12/5/96	PCT				
	B40	WO 97/00319	1/3/97	PCT				
	B41	WO 97/00866	1/9/97	PCT				
	B42	WO 97/02004	1/23/97	PCT				
	B43	WO 97/11192	3/27/97	PCT				
CS	B44	WO 97/13500	4/17/97	PCT				

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							Yes	No
CS	B45	WO 97/15322	5/1/97	PCT				
	B46	WO 97/16189	5/9/97	PCT				
	B47	WO 97/16550	5/9/97	PCT				
	B48	WO 97/18806	5/29/97	PCT				
	B49	WO 97/18228	5/22/97	PCT				
	B50	WO 97/19952	6/5/97	PCT				
	B51	WO 97/20933	6/12/97	PCT				
	B52	WO 97/24440	7/10/97	PCT				
	B53	WO 97/25425	7/17/97	PCT				
	B54	WO 97/26004	7/24/97	PCT				
	B55	WO 97/26011	7/24/97	PCT				
	B56	WO 97/26012	7/24/97	PCT				
	B57	WO 97/26013	7/24/97	PCT				
	B58	WO 97/26523	7/24/97	PCT				
	B59	WO 97/26916	7/31/97	PCT				
	B60	WO 97/27286	7/31/97	PCT				
	B61	WO 97/28824	8/14/97	PCT				
	B62	WO 97/31015	8/28/97	PCT				
	B63	WO 97/35620	10/2/97	PCT				
CS	B64	WO 97/40380	10/30/97	PCT				

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FOREIGN PATENT DOCUMENTS								
*Examiner Initials		Document Number	Publication Date	Country	Class	Subclass	Translation	
							Yes	No
CS	B65	WO 97/41217	11/6/97	PCT			ABSTRACT ONLY	
	B66	WO 97/41263	11/6/97	PCT				
	B67	WO 97/42340	11/13/97	PCT				
	B68	WO 97/46585	12/11/97	PCT				
	B69	WO 97/46587	12/11/97	PCT				
	B70	WO 97/12037	4/3/97	PCT				
	B71	WO 96/40912	12/19/96	PCT				
	B72	WO 97/06816	2/27/97	PCT				
	B73	WO 97/18833	5/29/97	PCT				
	B74	WO 97/25424	7/17/97	PCT				
	B75	WO 97/26335	7/24/97	PCT				
	B76	WO 97/32022	9/4/97	PCT				
CS	B77	WO 97/38014	10/16/97	PCT				

EXAMINER <del>G. Draper</del>	/Christine Saoud/	DATE CONSIDERED 07/26/2006
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Sheet 1 of 1

Form PTO-1449 IRSY. 7.801 U.S. Department of Commerce Patent and Trademark Office  LIST OF DOCUMENTARY INFORMATION CITED BY APPLICANT  (Use several sheets if necessary)	ATTORNEY	600-1-087CIP1
	SERIAL NO.	<del>08/438,431</del>
	APPLICANT	Jeffrey Friedman et al.
	FILING DATE	May 10, 1995
	GROUP	<del>1646</del>

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CS	C119	Genbank Accession No. U18812, Mus musculus obese precursor (ob) mRNA, complete cds., deposited by Zhang, Y. et al., December 21, 1994

EXAMINER:	/Christine Saoud/	DATE CONSIDERED:	07/26/2006
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Patent and Trademark Office

ATTORNEY 600-1-087CIP1

SERIAL NO. ~~08/438,494~~

APPLICANT Friedman et al.

FILING DATE ~~05/10/05~~

GROUP ~~1646~~

LIST OF DOCUMENTARY INFORMATION  
CITED BY APPLICANT

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
CS	A41	5,512,457	4/30/96	Lyman et al.			
CS	A42	5,098,833	3/24/92	Lasky et al.			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)


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/Christine Saoud/

DATE CONSIDERED:

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## U.S. PATENT DOCUMENTS

*Examiner Initials		Document Number	Issue Date	Name	Class	Subclass	Filing Date If Appropriate
CS	A25	5,073,627	12/17/91	Curtis <i>et al.</i>	530	351	
	A26	5,116,964	05/26/92	Capon <i>et al.</i>	536	27	
	A27	5,225,538	07/06/93	Capon <i>et al.</i>	530	387.3	
	A28	5,359,034	10/25/94	Skelly <i>et al.</i>	530	351	
	A29	5,428,130	06/27/95	Capon <i>et al.</i>	530	350	
	A30	5,447,851	09/05/95	Beutler <i>et al.</i>	435	69.7	
	A31	5,455,165	10/03/95	Capon <i>et al.</i>	435	64.7	
	A32	5,480,981	01/02/96	Goodwin <i>et al.</i>	536	23.5	
	A33	5,514,582	05/07/96	Capon <i>et al.</i>	435	232.3	
	A34	5,574,018	11/12/96	Habberfield <i>et al.</i>	514	2	
	A35	5,670,625	09/23/97	Lyman <i>et al.</i>	530	387.3	
	A36	5,714,147	02/03/98	Capon <i>et al.</i>	424	178.1	
	A37	5,719,266	02/17/98	DiMarchi <i>et al.</i>	530	350	
	A38	5,739,277	4/14/98	Presta <i>et al.</i>	530	326	
	A39	5,756,461	05/26/98	Stephens, T.W.	514	12	
CS	A40	5,827,734	10/27/98	Weigle <i>et al.</i>	435	325	

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FOREIGN PATENT DOCUMENTS								
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							Yes	No
CS	B78	AU-B-51978/96	03/05/98	AU			✓	
	B79	EP 0 401 384	12/12/90	EP				
	B80	WO 83/04053	11/24/83	WIPO				
	B81	WO 89/10932	11/16/89	WIPO				
	B82	WO 94/20069	09/15/94	WIPO				
	B83	WO 95/21629	08/17/95	WIPO				
	B84	WO 96/03141	02/08/96	WIPO				
	B85	WO 96/04388	02/15/96	WIPO				
	B86	WO 96/05309	02/22/96	WIPO				
	B87	WO 96/11953	04/25/96	WIPO				
	B88	WO 96/18412	06/20/96	WIPO				
	B89	WO 96/29989	10/03/96	WIPO				
CS	B90	WO 97/24137	07/10/97	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
CS	C1	Altman, S.W. et al., "Expression and Purification of a Synthetic Human Obese Gene Product," <i>Protein Expression and Purification</i> , 6:722-726 (1995).
CS	C2	Angier, N., "Researchers Link Obesity In Humans To Flaw In A Gene," <i>The New York Times</i> reported on December 1, 1994.

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		Filing Date May 10, 1995	Group 1646

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
CS	C3	Barinaga, " 'Obese' Protein Slims Mice", <i>Science</i> , 269:475-476 (July, 1995).
	C4	Baron, M.H. <i>et al.</i> , "Antibodies against the Chemically Synthesized Genome-Linked Protein of Poliovirus React with Native Virus-Specific Proteins," <i>Cell</i> , 28:395-404 (February, 1982).
	C5	Bennett, B.D. <i>et al.</i> , "A role for leptin and its cognate receptor in hematopoiesis," <i>Current Biology</i> , 6(9):1170-1180 (September 1, 1996).
	C6	Bishop, J.E., "Newfound Gene May Control Fat Storage," <i>The Wall Street Journal, Health and Science</i> , reported on December 1, 1994.
	C7	Bishop, J.E., "Rockefeller Study Supports Theory That Body Has Fat-Maintenance System," <i>Wall Street Journal</i> , reported on March 9, 1995.
	C8	Campfield, L.A. <i>et al.</i> , "Strategies and Potential Molecular Targets for Obesity Treatment," <i>Science</i> , 280:1383-1387 (May, 1998).
	C9	Capon, D.J. <i>et al.</i> , "Designing CD4 immunoadhesins for AIDS therapy," <i>Nature</i> , 337:525-531 (February, 1989).
	C10	Chen, H. <i>et al.</i> , "Evidence That the Diabetes Gene Encodes the Leptin Receptor: Identification of a Mutation in the Leptin Receptor Gene in <i>db/db</i> Mice," <i>Cell</i> , 84:491-495 (February, 1996).
	C11	Cioffi, J.A. <i>et al.</i> , "Novel B219/OB receptor isoforms: Possible role of leptin in hematopoiesis and reproduction," <i>Nature Medicine</i> , 2(5):585-589 (May, 1996).
	C12	Coleman, D.L. <i>et al.</i> , "The Influence of Genetic Background on the Expression of the Obese ( <i>Ob</i> ) Gene in the Mouse," <i>Diabetologia</i> , 9:287-293 (1973).
	C13	Comuzzie, A.G. <i>et al.</i> , "The Search for Human Obesity Genes," <i>Science</i> , 280:1374-1377 (May, 1998).
	C14	Considine, R.V. <i>et al.</i> , "Ob Gene Expression Is Increased in Adipocytes from Obese Humans," <i>Diabetes</i> , 44:202A (May, 1995) (ABSTRACT 739).
CS	C15	Cusin I. <i>et al.</i> , "The <i>ob</i> Gene and Insulin A Relationship Leading to Clues to the Understanding of Obesity," <i>Diabetes</i> , 44:1467-1470 (December, 1995).

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		Filing Date May 10, 1995	Group 1646

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)		
CS	C16	Detjen, J. (Philadelphia Inquirer), "Obesity gene find may help millions someday," The Durham Herald Co., <i>The Herald-Sun</i> (Durham, NC), pg. A1, reported on December 1, 1994.
	C17	Dressman, G.R. <i>et al.</i> , "Antibody to hepatitis B surface antigen after a single inoculation of uncoupled synthetic HbsAg peptides," <i>Nature</i> , 295:158-160 (January, 1982).
	C18	Ellison, J.W. <i>et al.</i> , "The nucleotide sequence of a human immunoglobulin C $\gamma_1$ gene," <i>Nucleic Acids Research</i> , 10(13):4071-4079 (1982).
	C19	Enerbäck, S. <i>et al.</i> , "Mice lacking mitochondrial uncoupling protein are cold-sensitive but not obese," <i>Nature</i> , 387:90-93 (May, 1997).
	C20	Evans, D.J. <i>et al.</i> , "Relationship of Body Fat Topography to Insulin Sensitivity and Metabolic Profiles in Premenopausal Women," <i>Metabolism</i> , 33(1):68-75 (January, 1984).
	C21	Ferré, P, "Obésité. Produit de Gène ob Et Contrôle De La Masse Adipeuse [Obesity, The ob Gene Product and Control of Adipose Mass]," <i>Diabete &amp; Metabolisme (Paris)</i> , 21:217-218 (1995).
	C22	Fisher, C.J. <i>et al.</i> , "Treatment of Septic Shock with the Tumor Necrosis Factor Receptor:Fc Fusion Protein," <i>N. Engl. J. Med.</i> , 334:1697-1702 (1996).
	C23	Flam, "Obesity Gene Discovery May Help Solve Weighty Problem," <i>Science</i> , 266:1477-1478 (December, 1994).
	C24	Ford, C.F. <i>et al.</i> , "Fusion Tails for the Recovery and Purification of Recombinant Proteins," <i>Protein Expression and Purification</i> , 2:95-107 (1991).
	C25	Frederich, R. <i>et al.</i> , "Nutritional Regulation of ob Gene mRNA in White Adipose Tissue," <i>The Endocrine Society, Programs &amp; Abstracts</i> , 77th Meeting, June 14-17, 1995, Washington, D.C., p.173 (ABSTRACT OR25-3)
CS	C26	Frederich R.C. <i>et al.</i> , "Leptin levels reflect body lipid content in mice: Evidence for diet-induced resistance to leptin action," <i>Nature Medicine</i> , 1(12):1311-1314 (December, 1995).

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